



# 1.0 Mobile Devices

## 1.1 Given a scenario, install and configure laptop hardware and components.

- **Hardware/device replacement**
    - Battery
    - Keyboard/keys
    - Random-access memory (RAM)
  - Hard disk drive (HDD)/solid-state drive (SSD) migration
  - HDD/SSD replacement
  - Wireless cards
  - **Physical privacy and security components**
    - Biometrics
    - Near-field scanner features
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## 1.2 Compare and contrast the display components of mobile devices.

- **Types**
    - Liquid crystal display (LCD)
      - In-plane switching (IPS)
      - Twisted nematic (TN)
      - Vertical alignment (VA)
    - Organic light-emitting diode (OLED)
  - **Mobile display components**
    - **WiFi antenna connector/ placement**
    - **Camera/webcam**
    - **Microphone**
  - **Touch screen/digitizer**
  - **Inverter**
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## 1.3 Given a scenario, set up and configure accessories and ports of mobile devices.

- **Connection methods**
  - Universal Serial Bus (USB)/USB-C/microUSB/miniUSB
  - Lightning
  - Serial interfaces
  - Near-field communication (NFC)
  - Bluetooth
  - Hotspot
- **Accessories**
  - Touch pens
  - Headsets
  - Speakers
  - Webcam
- **Docking station**
- **Port replicator**
- **Trackpad/drawing pad**



## 1.4 Given a scenario, configure basic mobile-device network connectivity and application support.

- **Wireless/cellular data network (enable/disable)**
  - 2G/3G/4G/5G
  - Hotspot
  - Global System for Mobile Communications (GSM) vs. code-division multiple access (CDMA)
  - Preferred Roaming List (PRL) updates
- **Bluetooth**
  - Enable Bluetooth
  - Enable pairing
  - Find a device for pairing
  - Enter the appropriate PIN code
  - Test connectivity
- **Location services**
  - Global Positioning System (GPS) services
  - Cellular location services
- **Mobile device management (MDM)/mobile application management (MAM)**
  - Corporate email configuration
  - Two-factor authentication
  - Corporate applications
- **Mobile device synchronization**
  - Account setup
    - Microsoft 365
    - Google Workspace
    - iCloud
  - Data to synchronize
    - Mail
    - Photos
    - Calendar
    - Contacts
    - Recognizing data caps